

GOVERNMENT OF INDIA  
MINISTRY OF CHEMICALS AND FERTILIZERS  
DEPARTMENT OF FERTILIZERS

**RAJYA SABHA**

**UNSTARRED QUESTION NO. 173 TO BE ANSWERED ON: 22.07.2025**

**Promotion of nano-fertilizers**

**173. SHRI AYODHYA RAMI REDDY ALLA:**

Will the Minister of **CHEMICALS AND FERTILIZERS** be pleased to state:

- (a) how policymakers would ensure that nano-fertilizers (estimated to be 20-30 per cent costlier than traditional fertilizers) are economically viable for small farmers in India, who account for 80 per cent of the country's agricultural workforce and often have limited financial resources given the high production costs of these products; and
- (b) whether a comprehensive life cycle assessment (LCA) model, can be developed to evaluate the environmental impacts of nano-fertilizers, if so, the details thereof including their effects on soil health, water quality, biodiversity and their impacts on those of traditional fertilizers, considering the potential for increased use of nano-fertilizers in the country?

**ANSWER**

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS  
**(SMT. ANUPRIYA PATEL)**

(a) Sir, the Maximum Retail Price (MRP) of 45 Kg bag of conventional Urea, after subsidy, is Rs 266.5 per bag. Against this, the MRP of Nano Urea produced by various companies are as under :

Sr. No	Company Name	MRP
1	Indian Farmers Fertilisers Cooperative Limited	Rs 225 per 500 ml bottle
2	Ray Nano Science & Research Centre	Rs 225 per 500 ml bottle
3	Meghmani Crop Nutrition Limited	Rs 225 per 500 ml bottle
4	Zuari Farm Hub Ltd	Rs 265 per 500 ml bottle
5	Coromandel International Limited	Rs 325 per 500 ml bottle

A 500 ml bottle of Nano urea is approximately equivalent to 1 bag of 45 Kg of conventional Urea.

The MRP of 50 Kg bag of conventional DAP, after subsidy, is Rs 1350 per bag. Against this, the MRP of Nano DAP produced by various companies are as under:

<b>Sr. No</b>	<b>Company Name</b>	<b>MRP</b>
1	Indian Farmers Fertilisers Cooperative Limited	Rs 600 per 500 ml bottle
2	Coromandel International Limited	Rs 600 per 1 litre bottle
3	Zuari Farm Hub Ltd	Rs 625 per 500 ml bottle

A 500 ml bottle of Nano DAP is approximately equivalent to 1 bag of 50 Kg of conventional DAP.

(b) Under clause 20 D of Fertilizer Control Order (FCO) which is administered by Department of Agriculture and Farmers Welfare (DA&FW), it is required for the manufacture of nano fertilizer to make an application to the Controller, DA&FW along with a report of the State Agricultural University or of the Indian Council of Agricultural Research on multi-locational and multi-crop bio-efficacy trial of minimum of one season and also a report from any of the NABL accredited laboratories on bio-safety, bio-toxicity and quality trial as per the guidelines issued by the Department of Bio- Technology. After ensuring all these aspects, the nano fertilisers are included in FCO on the recommendations of Central Fertiliser Committee.

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